ELSEVIER

Bone Vol. 27, No. 6
December 2000:880–883

AUTHOR INDEX
Bone, Volume 27, 2000

Aaron, J. E., 271, 277
Ackert, C., 521, 877
Adachi, J. D., 311
Adami, S., 119
Adams, C. S., 359
American Society for Bone Mineral Research President's Committee on Nomenclature, 761
Amling, M., 603
Angel, N. Z., 575
Aoe, S., 403
Apone, S., 103
Arakawa, T., 479
Ardila, E., 695
Armstrong, D. W., III, 835
Arnett, T. R., 503
Ashihara, T., 655
Athanasou, N. A., 409
Atkins, G. J., 61

Bagur, A., 841
Bajnok, E., 559
Baldini, T., 541
Balhorn, K. E., 429
Barker, J. E., 619
Baron, R., 603
Baroukh, B., 627
Batchelder, A., 103
Baudoin, C., 161
Bayley, K. E., 29
Baylink, D. J., 445, 471, 529, 619
Beamer, W. G., 445, 471, 521, 619
Beaudreuil, J., 161
Beavan, S. R., 397
Beck, T. J., 437
Becker, J. H., 709
Bell, K. L., 297
Beller, G., 319
Beneton, M., 271, 277
Beresford, J. N., 185
Bergfeld, M., 219
Bergmann, P., 287
Berzins, A., 709
Betsinger, K., 437
Bettany, J. T., 75
Bhattacharyya, S., 529
Bidwell, J. P., 209
Bjurholm, A., 803
Bland, R., 375
Bleicher, F., 265
Bliziotes, M., 367
Boivin, G. Y., 687
Bonjour, J. P., 69
Boonen, S., 611
Bord, S., 397
Boskey, A. L., 341, 541
Bouillon, R., 97, 249, 611
Boyan, B. D., 341
Bradley, D. A., 219
Braga, V., 119
Bréart, G., 283
Brodine, S. K., 437
Bronson, R. T., 619
Brown, E. M., 21
Buchaille, R., 265
Bullock, B. C., 47
Burger, H., 151
Burgess, J. K., 521
Burnstock, G., 503
Burr, D. B., 13, 855
Byard, R. W., 495
Byers, S., 495

Cain, R. L., 209
Carbonell, J., 123
Carlson, C., 541
Carmeliet, G., 97
Cassady, A. I., 575
Castillo, G., 529
Caverzasio, J., 69
Cavolina, J. M., 535
Chambers, A. F., 795
Chambers, T. J., 29
Chan, Y. H., 677
Chapurlat, R. D., 283
Chatterton, B. E., 145
Chattopadhyay, N., 21
Chavassieux, P. M., 687
Chen, J., 667
Cheng, M. Z., 233
Cheng, W. C., 681
Cherruau, M., 627
Choi, Y., 29
Christian, J. C., 169
Churchill, G. A., 521
Clarke, L. L., 219
Compston, J. E., 397, 765
Conneally, P. M., 169
Constant, C. R., 297
Cooper, C., 563
Cooper, M. S., 375
Couble, M. L., 265
Crabtree, N. J., 151, 701
Crawford, G. C., 619
Croteau, S., 453
Crowson, C. S., 695
Czekalski, S., 151

Daci, E., 97
Dauty, M., 305
Dawson, A., 585
Day, J. S., 715
de Coster, R., 611
de Jersey, J., 575
De Laet, C., 585
de Maertelaer, V., 287
De Vernejoul, M. C., 161
Delmas, P. D., 1, 283, 841
Denne, M. A., 161
Dequeker, J., 151
D'Errico, J. A., 795
Devanarayan, V., 819
Ding, M., 715
Dixon, S. J., 5
Dobigny, C., 627
Dobson, C. A., 111
Doi, Y., 81
Donahue, H. J., 227
Donahue, L. R., 445, 521, 619
Donahue, S. W., 827
Drake, A. J., III, 835
Dratwa, M., 287
Draycott, G., 29
Dubois, C., 305

Ebara, S., 811
Ebbesen, E. N., 129
Econs, M. J., 169
Ederveen, A. G. H., 611
Ehrig, J., 319
Ekholm, E. C., 551
Eto, Y., 91
Evans, G. L., 535
Evans, W. E., 169
Evdokiou, A., 61
Eyre, D. R., 103

Fagan, M. J., 111
Falch, J. A., 151
Falla, N., 209
Farley, J., 445
Farrerons, J., 123
Fazzalari, N. L., 495
Felsenberg, D., 319
Findlay, D. M., 61
Flanagan, S., 591
Florio, C. L., 197
Foroud, T., 169
Forwood, M. R., 13
Fox, J., 511
Fox, S. W., 29
Fraher, L. J., 311
Fraser, W. D., 41, 375, 417
Frost, H. M., 667
Fujimoto, S., 81
Fujita, S., 91
Fujita, T., 769
Fukumoto, S., 769
Fuller, K., 29
Furukawa, H., 81

Gadeleta, S. J., 541
Gallagher, J. A., 417
Gallagher, J. C., 429

© 2000 by Elsevier Science Inc.
All rights reserved.

8756-3282/00/$20.00
PII S8756-3282(00)00441-5

ELSEVIER

Bone Vol. 27, No. 6
December 2000:880–883

AUTHOR INDEX
Bone, Volume 27, 2000

Aaron, J. E., 271, 277
Ackert, C., 521, 877
Adachi, J. D., 311
Adami, S., 119
Adams, C. S., 359
American Society for Bone Mineral Research President's Committee on Nomenclature, 761
Amling, M., 603
Angel, N. Z., 575
Aoe, S., 403
Apone, S., 103
Arakawa, T., 479
Ardila, E., 695
Armstrong, D. W., III, 835
Arnett, T. R., 503
Ashihara, T., 655
Athanasou, N. A., 409
Atkins, G. J., 61

Bagur, A., 841
Bajnok, E., 559
Baldini, T., 541
Balhorn, K. E., 429
Barker, J. E., 619
Baron, R., 603
Baroukh, B., 627
Batchelder, A., 103
Baudoin, C., 161
Bayley, K. E., 29
Baylink, D. J., 445, 471, 529, 619
Beamer, W. G., 445, 471, 521, 619
Beaudreuil, J., 161
Beavan, S. R., 397
Beck, T. J., 437
Becker, J. H., 709
Bell, K. L., 297
Beller, G., 319
Beneton, M., 271, 277
Beresford, J. N., 185
Bergfeld, M., 219
Bergmann, P., 287
Berzins, A., 709
Betsinger, K., 437
Bettany, J. T., 75
Bhattacharyya, S., 529
Bidwell, J. P., 209
Bjurholm, A., 803
Bland, R., 375
Bleicher, F., 265
Bliziotes, M., 367
Boivin, G. Y., 687
Bonjour, J. P., 69
Boonen, S., 611
Bord, S., 397
Boskey, A. L., 341, 541
Bouillon, R., 97, 249, 611
Boyan, B. D., 341
Bradley, D. A., 219
Braga, V., 119
Bréart, G., 283
Brodine, S. K., 437
Bronson, R. T., 619
Brown, E. M., 21
Buchaille, R., 265
Bullock, B. C., 47
Burger, H., 151
Burgess, J. K., 521
Burnstock, G., 503
Burr, D. B., 13, 855
Byard, R. W., 495
Byers, S., 495

Cain, R. L., 209
Carbonell, J., 123
Carlson, C., 541
Carmeliet, G., 97
Cassady, A. I., 575
Castillo, G., 529
Caverzasio, J., 69
Cavolina, J. M., 535
Chambers, A. F., 795
Chambers, T. J., 29
Chan, Y. H., 677
Chapurlat, R. D., 283
Chatterton, B. E., 145
Chattopadhyay, N., 21
Chavassieux, P. M., 687
Chen, J., 667
Cheng, M. Z., 233
Cheng, W. C., 681
Cherruau, M., 627
Choi, Y., 29
Christian, J. C., 169
Churchill, G. A., 521
Clarke, L. L., 219
Compston, J. E., 397, 765
Conneally, P. M., 169
Constant, C. R., 297
Cooper, C., 563
Cooper, M. S., 375
Couble, M. L., 265
Crabtree, N. J., 151, 701
Crawford, G. C., 619
Croteau, S., 453
Crowson, C. S., 695
Czekalski, S., 151

Daci, E., 97
Dauty, M., 305
Dawson, A., 585
Day, J. S., 715
de Coster, R., 611
de Jersey, J., 575
De Laet, C., 585
de Maertelaer, V., 287
De Vernejoul, M. C., 161
Delmas, P. D., 1, 283, 841
Denne, M. A., 161
Dequeker, J., 151
D'Errico, J. A., 795
Devanarayan, V., 819
Ding, M., 715
Dixon, S. J., 5
Dobigny, C., 627
Dobson, C. A., 111
Doi, Y., 81
Donahue, H. J., 227
Donahue, L. R., 445, 521, 619
Donahue, S. W., 827
Drake, A. J., III, 835
Dratwa, M., 287
Draycott, G., 29
Dubois, C., 305

Ebara, S., 811
Ebbesen, E. N., 129
Econs, M. J., 169
Ederveen, A. G. H., 611
Ehrig, J., 319
Ekholm, E. C., 551
Eto, Y., 91
Evans, G. L., 535
Evans, W. E., 169
Evdokiou, A., 61
Eyre, D. R., 103

Fagan, M. J., 111
Falch, J. A., 151
Falla, N., 209
Farley, J., 445
Farrerons, J., 123
Fazzalari, N. L., 495
Felsenberg, D., 319
Findlay, D. M., 61
Flanagan, S., 591
Florio, C. L., 197
Foroud, T., 169
Forwood, M. R., 13
Fox, J., 511
Fox, S. W., 29
Fraher, L. J., 311
Fraser, W. D., 41, 375, 417
Frost, H. M., 667
Fujimoto, S., 81
Fujita, S., 91
Fujita, T., 769
Fukumoto, S., 769
Fuller, K., 29
Furukawa, H., 81

Gadeleta, S. J., 541
Gallagher, J. A., 417
Gallagher, J. C., 429

© 2000 by Elsevier Science Inc.
All rights reserved.

8756-3282/00/$20.00
PII S8756-3282(00)00441-5

Ganney, P. S., 111
Garnero, P., 283
Gatti, D., 119
Gawenis, L. R., 219
Gibson, F. M., 29
Gibson, M. A., 61
Gimble, J. M., 177
Girardello, S., 119
Glackin, C. A., 591
Glass, R., 503
Glorieux, F. H., 453, 487
Goldberg, H. A., 795
Goodship, A. E., 41
Gorski, J. P., 103
Grabowski, J., 203
Grabowski, P. S., 75
Graulet, A. M., 161
Grazio, S., 151
Green, K., 203
Griffith, J., 677
Gu, W., 619
Guañabens, N., 123
Guddat, L. W., 575
Guez, D., 627
Guicheux, J., 69
Gunness, M., 367

Haapasalo, H., 351
Haire, T. J., 111
Hakeda, Y., 479
Hamdy, R., 453
Hamilton, S. E., 575
Hamrick, M. W., 343
Harju, P., 293
Harris, N. L., 795
Hashiguchi, S., 655
Hatzinikolas, G., 61
Havelka, S., 151
Hay, S., 61
Heersche, J. N. M., 785
Hewison, M., 375
Hillman, L. S., 219
Hiraki, Y., 69
Hirano, T., 13
Hirasawa, Y., 655
Hock, J. M., 209, 467, 819
Hodsman, A. B., 311
Hoebertz, A., 503
Holt, G., 151
Hordon, L. D., 271
Horie, T., 91
Horiuchi, H., 811
Horner, A., 397
Horowitz, M., 145
Horst, R. L., 383
Horton, M. A., 803
Hoszowski, K., 151
Hsu, S. H. J., 681
Hudson, J., 343
Hui, S. L., 169
Hume, D. A., 575
Hunter, G. K., 795
Hvid, I., 715

Isefuku, S., 661
Ishigami, T., 389

Itabashi, A., 403

Jacobsen, B. K., 701
Jajic, I., 151
Jakob, F., 53
James, G., 119
Jang, M. H., 681
Janzen, L., 203
Järvinen, M., 351
Jean, W., 103
Jee, W. S. S., 667
Jefferiss, C., 185
Jefferson, W. J., 47
Jessop, H. L., 233
Jia, D., 785
Johnell, O., 585
Johnson, K. A., 257
Johnston, C. C., 13
Johnston, C. C., Jr., 169
Jonsson, B., 585
Jordan, G. R., 185, 297
Jørgensen, L., 701
Joyner, C. J., 661
Jullienne, A., 161
Jung, C., 319

Kafantari, H., 635
Kageyama, N., 655
Kähäri, V.-M., 551
Kaneda, T., 479
Kaneko, H., 479
Kanis, J. A., 271, 277, 585
Kannus, P., 351
Katsumata, T., 647
Kawaguchi, H., 647
Kawakami, H., 403
Kemper, H. C. G., 847
Khaw, K.-T., 151
Khosla, S., 695
Kinoshita, T., 811
Kisiel, M., 311
Kitahama, S., 61
Kitano, M., 389
Kleimola, T., 293
Kobayashi, S., 811
Koch, U., 319
Kodama, Y., 445, 471
Kogita, K., 647
Koller, D. L., 169
Kontulainen, S., 351
Korach, K. S., 47
Koszewski, N. J., 383
Kotev-Emeth, S., 777
Kröger, H., 151
Kuchler, K., 591
Kudo, H., 81
Kuliwaba, J. L., 61
Kumar, R., 333
Kumegawa, M., 403, 479
Kusuzaki, K., 655
Kutilek, S., 471

Laitinen, K., 293
Lakatos, P., 559
Langton, C. M., 111
Langub, M. C., 383

Lanyon, L. E., 233, 241
Lau, E. M. C., 677
Lauzier, D., 453
Lean, J. M., 29
Lechner, A., 53
Lee, M. S., 591
Lehenkari, P. P., 803
Lerner, U. H., 803
Leufkens, H. G. M., 563
Liang, J. D., 209
Libreros-Minotta, C., 219
Lidtke, R., 709
Lie, A., 803
Linkhart, T. A., 445
Lips, P., 847
Lohse, C. M., 423
Lorenc, R. S., 151
Lovejoy, C. O., 343
Loveridge, N., 297
Lowe, G., 591
Löyttyniemi, E., 293
Lundberg, P., 803
Lunt, M., 151
Lyle, R., 855
Lyritis, G., 151

Mackey, M. S., 639
Magloire, H., 265
Majumdar, S., 319
Maki, T., 91
Malluche, H. H., 383
Manabe, N., 647
Mano, H., 479
Marder, P., 209
Martin, P., 287
Martin, R. B., 827
Mathe, J. F., 305
Matsuo, K., 29
Matsuoka, Y., 403
Maugars, Y., 305
McCabe, G., 855
McCabe, L. D., 855
McLeod, K. J., 227
McPherron, A. C., 343
Meleti, Z., 359
Melton, L. J., III, 423, 695
Menschik, F., 541
Mesquita, M., 287
Meunier, P. J., 283, 687
Miazgowski, T., 151
Migliaccio, S., 47
Miller, M. A., 511
Miwa, K., 91
Miyakoshi, N., 445, 529
Modanlou, K. A., 827
Moermans, K., 97, 611
Mohan, S., 471, 529
Monegal, A., 123
Moore, A. J., 495
Morey-Holton, E., 535
Morris, H. A., 145
Morris, J. S., 219
Mosekilde, L., 129, 249, 639
Muehleman, C., 709
Muir, P., 257
Munoz, F., 841

Bone Vol. 27, No. 6
December 2000:880–883

Murata, H., 655

Nagy, Z., 559
Nakagawa, M., 479
Nakamura, K., 647
Nakamura, T., 81, 91
Neale, S. D., 409
Need, A. G., 145
Neff, L., 603
Newbold, R. R., 47
Newitt, D., 319
Nicoll, R. G., 257
Nijs, J., 151
Nishikawa, T., 647
Nissenson, R., 367
Nuttall, M. E., 177

Oddie, G. W., 575
Oden, A., 585
Odgaard, A., 715
O'Fallon, W. M., 695
Ogasawara, A., 479
Ogawa, S., 647
Ohyama, T., 91
Okimoto, N., 91
Onyia, J. E., 209
Ooi, C. G., 417
Orcel, P., 161

Paavolainen, P., 551
Palmer, G., 69
Parfitt, A. M., 487
Paris, E., 841
Paschalis, E., 541
Patronen, A., 293
Pavesi, M., 123
Paxton, S. K., 271
Peacock, M., 169
Peet, N. M., 75
Penaloza, A., 287
Penttinen, R. P. K., 551
Peretz, A., 287
Perez-Edo, L., 123
Perrouin Verbe, B., 305
Perry, M. J., 41
Perttunen, K., 293
Peterson, M., 541
Phillips, C. L., 219
Phillips, R., 111
Phipps, R. J., 639
Pitaru, S., 777
Pols, H. A. P., 151
Post, G. B., 847
Powell, D. R., 521
Power, J., 297
Pri-chen, S., 777
Priemel, M., 603
Pun, S., 197
Pylkkänen, L., 293

Queener, S. W., 209

Raisi, M., 271
Ramolla, J., 319
Ransjö, M., 803
Raptou, P., 151
Rapuri, P. B., 429
Rattray, K. R., 795
Rauch, F., 453, 487
Ravanti, L., 551
Rawlinson, S. C. F., 241
Reeve, J., 151, 297, 701
Reid, D. M., 139
Reinhardt, T. A., 383
Renau, A., 123
Richardson, C. C., 619
Rimnac, C. M., 541
Rittweger, J., 319
Roca, M., 123
Roos, J. C., 847
Rosen, C. J., 445, 521, 619, 877
Rossini, M., 119
Roush, J. K., 257
Rubin, C. T., 227
Rueger, J. M., 603
Ruff, C. B., 437
Ryschon, K. L., 429

Saffar, J. L., 627
Sakai, R., 91
Samuels, A., 41
Sanders, J. L., 21
Santora, A. C., 687
Savion, N., 777
Schenk, G., 575
Schiessl, H., 319
Schilling, A. F., 603
Schlotzhauer, C. L., 219
Schmidt, F., 319
Schütze, N., 53
Schwartz, Z., 341
Scopacasa, F., 145
Screen, J., 185
Semba, I., 389
Sequeira, L. N., 827
Seshia, M. M., 203
Setterberg, R. B., 667
Seufert, J., 53
Shacter, E., 103
Shaffer, K. A., 103
Shaffer, R. A., 437
Shakir, K. M. M., 835
Shapiro, I. M., 359
Sharkey, N. A., 827
Shen, H. G., 471
Shinjo, H., 655
Shore, P. A., 277
Shore, R. C., 277
Shott, S., 709
Shukunami, C., 69
Shultz, K. L., 521
Sibonga, J. D., 535
Sievänen, H., 351
Siggelkow, H., 53
Silman, A. J., 151
Simpson, A. H. R. W., 661
Sims, S. M., 5
Sisias, G., 111
Sissons, H. A., 865
Skerry, T. M., 75
Smith, R., 409
Somerman, M. J., 795
Sornay-Rendu, E., 841
Souhami, E., 841
Speer, G., 559
Spera, G., 47
Srivastava, A., 445
Srivastava, A. K., 471, 529
Stanislaus, D., 209, 819
Stepan, J., 151
Stewart, A., 139
Stewart, K., 185
Stewart, P. M., 375
Suggs, C. A., 47
Sugihara, K., 389
Sumner, D. R., 709, 715
Suzawa, M., 769
Szulc, P., 841

Taboulet, J., 161
Takacs, I., 169, 559
Takada, Y., 403
Takaoka, K., 811
Takeshita, H., 655
Takeuchi, Y., 769
Tam, C. S., 667
Tanaka, M., 403
Taranta, A., 47
Teegarden, D., 855
Teti, A., 47
Thomsen, J. S., 129, 249, 639
Tiegs, R. D., 423
Toba, Y., 403
Tobias, J. H., 41
Torra, M., 123
Toverud, S. U., 47
Townsend-Nicholson, A., 503
Toyama, Y., 479
Travers, R., 453, 487
Trone, D. W., 437
Tsai, K. S., 681
Tsutsumimoto, T., 811
Turner, C. H., 13, 339
Turner, R. T., 535
Twisk, J. W. R., 847
Tye, C. E., 795
Tzaphlidou, M., 635

Uchida, S., 81
Underhill, T. M., 795

van Bree, R., 249
van der Mooren, M. J., 841
van Herck, E., 249, 611
van Mechelen, W., 847
van Staa, T. P., 563
Vandenput, L., 611
Vander Molen, M. A., 227
Vanderschueren, D., 611
Vargha, P., 559
Vassilev, P. M., 21
Vedi, S., 397
Verhaeghe, J., 249
Verhas, M., 287
Verstuyf, A., 97, 611
Vuori, I., 351

Wagner, E. F., 29

Wakabayashi, S., 811
Walker, E. A., 375
Walsh, C. A., 417
Walsh, N., 575
Walsh, S., 185
Wani, M. R., 29
Wass, J. A. H., 409
Watson, P. H., 311
Weaver, C. M., 855
Weidema, A. F., 5
Weiler, H. A., 203
Weinans, H., 715
Wergedal, J. E., 445, 471
Westerlind, K. C., 535
Wheeler-Jones, C. P. D., 241
White, R., 233
Williams, J. A., 103
Wiren, K., 367
Wishart, J. M., 145
Wolfe, J., 209
Wollan, P. C., 423
Wolowacz, R. G., 75
Wong, B. R., 29
Woo, J., 677
Wronski, T. J., 197

Yabe, Y., 479
Yamaguchi, T., 21
Yamamura, J., 403
Yang, X., 209
Yao, W., 667
Yates, J., 687
Ye, C. P., 21
Yen, B. L., 681
Yen, M. L., 681
Yoshikawa, T., 855
Yoshimura, Y., 811
Young, S., 841
Yuen, K. C., 203

Zaman, G., 233
Zanchetta, J., 841
Zhang, C., 471
Zhang, M., 535
Zhang, X.-W., 367

ELSEVIER

Bone Vol. 27, No. 6
December 2000:884–889

SUBJECT INDEX
Bone, Volume 27, 2000

Absorptiometry
Bone mineral density in spinal cord injury, 305
Abstracts
International Conference on Progress in Bone and Mineral Research 2000, 733
Acid phosphatase
Tartrate-resistant, structure, function, and regulation of, Review article, 575
Activated protein-1 gene activation
Parathyroid hormone and, 819
Activin
Bone mass and bone metabolism regulation by, 91
Adenosine triphosphate
P2 receptors expression in bone and bone cells and, 503
Adipocyte
Formation, insulin-like growth factor-1/-2 effects on, 785
Adipogenesis
Marrow, osteopenic disorders and, Perspective, 177
Vitamin K_2 effects on, in bone marrow cells, 769
Adolescents
Body fat and bone mass percentage in healthy adolescent females, 203
Growth plate histomorphometric analysis, 495
Alendronate
Bone loss in osteoporosis, prevention in Chinese women, 677
Bone loss prevention and, 639
Postmenopausal osteoporosis prevention/treatment, regimen comparison, 119
Alfacalcidol
Etidronate and, bone mass effects, 647
Alkaline phosphatase
Magnetic and electric field exposure and, 227
Alkaline phosphate
Fibroblast growth factor-2 and, 185
Anabolic treatment
Cancellous bone resorption and, 111
Androgen
Estrogen deficiency induced by aromatase inhibitor, skeletal effects of, rats, 611
Free, index, bone density, estradiol, and, elderly men, 145
Anthropometry
Lower leg, bone-muscle strength indices for, 319
Antiresorptive therapy
Fracture risk in osteoporosis and, Editorial, 1
Antiserum
Vitamin D receptor immunoreactivity in bone cells and, 383
Apoptosis
Inorganic phosphate role in inducing in osteoblasts, 359
Regulation in trabecular bone by parathyroid hormone, 209
Tetracycline-induced, in osteoclasts, 75
Architecture
Trabecular bone, volume fraction-dependent bias and, 715
Aromatase inhibitor
Estrogen deficiency induced bu, skeletal effects of, rats, 611
Athletes
Running, adaptive bone modeling of tarsal bones in racing greyhounds, 257
Tennis players, exercise-induced bone gain and bone density, 351

Baker's disease
Case report at autopsy, 865
Biomechanics
Lower leg, bone-muscle strength indices for, 319
Bisphosphonates
Clodronate, food intake timing effects on bioavailability of, 293
Body composition
Body fat and bone mass percentage in healthy adolescent females, 203
Body fat
Bone mass and, percentage in healthy adolescent females, 203
Bone
Collagen fibrils, nutritional factors influence on, 635
Fibrillin expression in, 61
11β-hydroxysteroid dehydrogenase expression and functional consequences in, 375
Interactions with muscle, Perspective, 339
Small leucine-rich proteoglycans and, 265
Bone cells
Mechanical strain and, estrogen receptor involvement, 233
Bone density
Estradiol, free androgen index, and, elderly men, 145
Exercise-induced bone gain and, tennis players, 351
Loss, risedronate or alendronate role in prevention of, 639
Bone development
Dermo-1 attributes in, 591
Bone formation
Fibroblast growth factor effects in tibial diaphysis and, 197
Pentoxifylline and rolipram effects on bone mass and, 811
Peripubertal, spontaneous fracture and, 619
Response to parathyroid hormone analogs, comparison study, 471
Bone fragility
Bone turnover suppression and, 13
Bone growth
Longitudinal, spaceflight and simulated weightlessness effects on, 535
Structural and cellular changes during, children, 487
Bone loss
Orchidectomy-induced, erect bipedal stance exercise role in preventing, in lumbar spine, 667
Rate of, calcimimetic NPS R-568-induced decrease in parathyroid hormone and, 511
Bone marrow
Adipogenesis, osteopenic disorders and, Perspective, 177
Measles virus and canine distemper virus absence in, in Paget's disease, 417
Megakaryocyte production in, estrogen effects on, 397
Osteogenic response of, to basic fibroblast growth factor, maturation effects on, 777
Vitamin K_2 effects on adipogenesis, osteoclastogenesis and ODF/RANK ligand expression in, 769
Bone mass
Activin effects on, 91
Body fat and, percentage in healthy adolescent females, 203
Early exposure to diethylstilbestrol effects on, mouse, 47
Etidronate/alfacalcidol effects on, 647
Exercise and disuse effects on, diabetic rats, 249
Femoral neck, exercise and oral contraceptive use effects on, women, 855
Fragility fractures and, Editorial, 1
Odontomas and, increase in aging osteopetrotic mice, 603
Pentoxifylline and rolipram effects on, 811

© 2000 by Elsevier Science Inc.
All rights reserved.

8756-3282/00/$20.00
PII S8756-3282(00)00442-7

Physical activity and fitness relation with development of, 847
Postmenopausal osteoporosis prevention/treatment, alendronate regimen comparison, 119
Trabecular architecture, vertebral fracture and, 2D histology, 271
Trabecular architecture, vertebral fracture and, 3D histology, 277
Bone metabolism
Activin and, 91
Smoking and, elderly women, 429
Bone mineral density (BMD)
Activin and, 91
Decreased, osteogenesis imperfecta and, 219
Dual x-ray absorptiometry analysis, young men, 835
Hip geometry, bone strength and, 151
Interleukin-6 gene locus association with, 169
Interleukin-1 receptor antagonist protein gene polymorphism and, postmenopausal women, 559
Milk protective function against osteoporosis, 403
Quantitative trait loci mapping for insulin-like growth factor-1 and, 521
Spinal cord injury patients and, 305
Bone modeling
Adaptive, tarsal bones in racing greyhounds, 257
Bone morphogenetic protein
Expression during distraction osteogenesis, 453
Bone morphogenetic protein-2
Stimulation by osteoclastic bone resorption, 479
Bone physiology
Lower leg, bone-muscle strength indices for, 319
Bone regeneration
Activin βa mRNA expression on osteoprogenitor cells, after injury, 81
Bone remodeling
Estrogen effects on megakaryocyte production in bone marrow and, 397
Exercise and disuse effects on, diabetic rats, 249
Structural and cellular changes during bone growth in children, 487
Bone repair
Bone canaliculi development during, 655
Bone resorption
Cancellous, anabolic treatment effects after, 111
C-telopeptide enzyme-linked immunoassay for measurement of, 529
Milk protective function against osteoporosis, 403
Osteoclast differentiation from resident precursors in, 627
Osteoclastic, stimulation by bone morphogenetic protein-2, 479
Plasminogen activator inhibitor I effects, 97
Regulation, tumor necrosis factors involved in, standard nomenclature for, 761
Response to parathyroid hormone analogs, comparison study, 471
Bone strength
Femoral neck, exercise and oral contraceptive use effects on, women, 855
Hip geometry of, bone mineral density, and, 151
Loss, risedronate or alendronate role in prevention of, 639
Myostatin deficiency and, 343
Stress fracture in military recruits and, gender differences in susceptibility factors, 437
Bone tissue
Mineralization of, alendronate effects, osteoporotic women, 687
Bone turnover
Parathyroid hormone therapy effects, postmenopausal women, 311
Suppression, microdamage accumulation and, 13

Calcaneus
Density of, in hemodialysis patients, 287
Calcitonin receptor
Leucocytes from postmenopausal women, 161
Calcitriol
Vitamin D receptor immunoreactivity in bone cells and, 383
Calcium
Dietary depletion/repletion of, tibial bone volume effects, mice, 445
Calcium-sensing receptor
In osteoblast cells, 21
Canaliculi
Bone, development of, during bone repair, 655
Cancellization
Structural and cellular changes during bone growth in children, 487
Cancellous bone
Static histomorphometry and, 129
Carbenoxolone
11β-hydroxysteroid dehydrogenase expression and functional consequences in bone and, 375
Cell binding
Bone sialoprotein and, 795
Cell growth
Magnetic and electric field exposure and, 227
Children
Growth plate histomorphometric analysis, 495
Structural and cellular changes during bone growth in, 487
Chondrocytes
P2 receptors expression in, 503
Phosphate transport in endochondrial ossification and, 69
Clodronate
Food intake timing effects on bioavailability of, 293
Collagen, type I
Breakdown product, as predictor of hip fracture risk, elderly women, 283
Decreased bone mineral density and, 219
Small leucine-rich proteoglycans and, 265
Collagen fibrils
Bone, nutritional factors influence on, 635
Compaction
Structural and cellular changes during bone growth in children, 487
Computed tomography, quantitative
Adaptive bone modeling of tarsal bones in racing greyhounds, 257
Peripheral, lower leg, bone-muscle strength indices for, 319
Connexin 43
Magnetic and electric field exposure and, 227
Contraceptives, oral
Femoral neck bone mass/strength effects, women, 855
Cortical bone
Fibroblast growth factor effects in tibial diaphysis, 197
Cortical porosity
In intracapsular hip fracture, 297
Cortisol
11β-hydroxysteroid dehydrogenase expression and functional consequences in bone and, 375
C-telopeptide enzyme-linked immunoassay
For measurement of bone resorption, 529

Dentin
Small leucine-rich proteoglycans and, 265
Deoxypyridinoline
Milk protective function against osteoporosis, 403
Dermo-1
Bone development and, 591
Development
Early estrogen exposure effects on osteoclastogenesis, 47
Diabetes
Exercise and disuse effects on bone remodeling and bone mass, 249
Diaphysis
Tibial, fibroblast growth factor and, 197
Diethylstilbestrol
Early exposure to, bone mass in adulthood and, mouse, 47

Bone Vol. 27, No. 6
December 2000:884–889

1α,25-Dihydroxyvitamin D_3
Bone resorption induced by, plasminogen activator inhibitor I effects, 97
1,25-Dihydroxyvitamin D_3
Osteoclast differentiation in Paget's disease and, 409
Transcriptional control of response genes and, 53
Drug absorption
Clodronate, food intake timing effects on bioavailability of, 293
Dual-energy x-ray absorptiometry
Bone density in hemodialysis patients, 287
Bone mineral content/density analysis, young men, 835
Decreased bone mineral density and, 219

Elderly patients
Bone density, free androgen index, and estradiol in, males, 145
Hip fracture risk, type I collagen breakdown product as predictor of, women, 283
Smoking and bone metabolism in, women, 429
Electron microscopy
Nutritional factors influence on bone collagen fibrils, 635
Epidemiology
Fractures after thyroidectomy, women, 695
Hip fracture risk, WHO criteria for osteopenia and osteoporosis, 585
Hip geometry , bone mineral density, and bone strength, European men and women, 151
Paget's disease, trends in incidence of, 423
Estradiol
Bone density, free androgen index, and, elderly men, 145
Estrogen
Deficiency, aromatase inhibitor-induced, skeletal effects of, rats, 611
Exposure effects on osteoclastogenesis, 47
Megakaryocyte production in bone marrow and, 397
Estrogen receptor
Estrogen-induced osteogenesis and, mouse, 41
Mechanical strain activation of, 233
Etidronate
Alfacalcidol and, bone mass effects, 647
Bone turnover suppression effects on microdamage, 13
Postmenopausal osteoporosis and, comparison with sodium fluoride, 123
Exercise
Bipedal stance, prevention of orchidectomy-induced bone loss in lumbar spine, 667
Bone remodeling and bone mass effects, diabetic rats, 249
Femoral neck bone mass/strength effects, women, 855
Extracellular matrix genes
Expression of, tibial fracture healing and, 551

Femur
Drill-hole injury, bone regeneration and, 81
Fibrillin
In bone and osteoblasts, 61
Fibroblast growth factor
Tibial diaphysis and, 197
Fibroblast growth factor-2
STRO-1 and alkaline phosphate markers in, 185
Fibrogenesis imperfecta ossium
Case report at autopsy, 865
Fitness
Bone mass development and, 847
Fracture healing
Hypercalcemia after marrow ablation and, 103
Fracture risk
Antiresorptive therapy effects, in osteoporosis, Editorial, 1
Osteoporotic, quantitative ultrasound prediction, 139
Fractures
After thyroidectomy, women, 695
Etiology of, Letter, 873
Fragility: *see* Fragility fractures
Nonsteroidal anti-inflammatory drugs and, 563
Spontaneous, peripubertal bone formation and, 619
Fragility fractures
Bone mass and, Editorial, 1

Gap junction
Magnetic and electric field exposure and, 227
Gastrointestinal absorption
Clodronate, food intake timing effects on bioavailability of, 293
GDF-8
Deficiency, femoral morphology and, 343
Gender disparity
Stress fracture in military recruits and, gender differences in susceptibility factors, 437
Genes
Immediate-early, localization to secretory pathway in osteoblasts, 53
Glucocorticoids
11β-hydroxysteroid dehydrogenase expression and functional consequences in bone and, 375
G-protein-coupled-receptor kinase 2
Osteoblast function impairment and, 367
Growth plate
Histomorphometric analysis of, from birth to adolescence, 495
Spaceflight and simulated weightlessness effects on longitudinal bone growth, 535

Haversian canals
Cortical porosity in intracapsular hip fracture and, 297
Hemodialysis
Bone density in, ultrasound and DEXA measurement of, 287
Hip
Geometry of, association with bone mineral density and bone strength, 151
Hip fracture
Intracapsular, increased cortical porosity in, 297
Risk of, WHO criteria for osteopenia and osteoporosis and, 585
Type I collagen as predictor of risk, elderly women, 283
Histomorphometry
Estrogen-induced osteogenesis, estrogen receptor role, 41
Fibroblast growth factor effects in tibial diaphysis, 197
Growth plate analysis, from birth to adolescence, 495
Parathyroid hormone effects on bone turnover, postmenopausal women, 311
Static, on cancellous bone, 129
Structural and cellular changes during bone growth in children, 487
Trabecular architecture in osteoporosis, vertebral fracture and, 2D histology, 271
Trabecular architecture in osteoporosis, vertebral fracture and, 3D histology, 277
11β-Hydroxysteroid dehydrogenase
Expression and functional consequences in bone, 375
Hypercalcemia
After marrow ablation, bone resorption and, 103
Hyperparathyroidism
Calcaneus density in hemodialysis patients, 287

Image analysis
Three-dimensional, trabecular architecture in osteoporosis, vertebral fracture and, 277
Two-dimensional, trabecular architecture in osteoporosis, vertebral fracture and, 271
Immunoassay
C-telopeptide enzyme-linked, for measurement of bone resorption, 529

Immunocytochemistry
Activin βa mRNA expression on osteoprogenitor cells, bone regeneration and, 81
Immunohistochemistry
Bone morphogenetic protein expression during distraction osteogenesis and, 453
Insulin-like growth factor-1/-2
Proliferation and differentiation of osteoprogenitor and adipocyte formation, 785
Insulin-like growth factor-1
Quantitative trait loci mapping for, 521
Interleukin-6 gene locus
Association with bone mineral density, 169
Interleukin-1 receptor antagonist protein gene polymorphism
Bone mineral density and, postmenopausal women, 559
International Conference on Progress in Bone and Mineral Research 2000, 721
Abstracts from, 733
Ion channels
In osteoclasts, electrophysiological characterization of, in deciduous teeth, 5

Kinase
Mitogen-activated, osteoblast function impairment and, 367

Letters to the Editor, 873
Limb lengthening
Bone morphogenetic protein expression during distraction osteogenesis and, 453
Lower leg
Bone-muscle strength indices for, 319
Lumbar vertebrae
Nandrolone decanoate effects on, 541

Males
Bone density, free androgen index, and estradiol in, elderly, 145
Mechanical strain
Bone cells effects, estrogen receptor involvement, 233
Megakaryocyte
Production in bone marrow, estrogen effects on, 397
Mesenchymal cells
Distraction osteogenesis and, 661
Metatarsal
Bone strain and microcracks at sites of stress fracture in, 827
Second, bone density and geometry contributions to strength of, 709
Microcracks
At stress fracture sites, in metatarsals, 827
Microdamage
Bone turnover suppression and, 13
Milk
Osteoporosis protection role, 403
Mineralization
Bone sialoprotein and, 795
Phosphate transport in endochondrial ossification and, 69
Small leucine-rich proteoglycans and, 265
Minerals
Importance in bone and mineral research, Perspective, 341
Morphometry
Vertebral fracture assessment and, 841
Muscle
Interactions with bone, Perspective, 339
Muscle mass
Myostatin deficiency and, 343
Muscle strength
Stress fracture in military recruits and, gender differences in susceptibility factors, 437
Myostatin
Deficiency, femoral morphology and, 343

Nomenclature
Tumor necrosis factor involved in bone resorption regulation, 761
Nonsteroidal anti-inflammatory drugs
Fracture risk and, 563
N-telopeptide
Crosslinked, hypercalcemia after marrow ablation and, 103
Nutrition
Bone collagen fibrils and, 635

ODF/RANK ligand expression
Vitamin K_2 effects on, in bone marrow cells, 769
Odontomas
Bone mass and, increase in aging osteopetrotic mice, 603
Ossification
Endochondrial, phosphate transport in, 69
Osteoadherin
Small leucine-rich proteoglycans and, 265
Osteoblasts
Calcium-sensing receptor in, 21
CYR61 gene response to, 53
Fibrillin expression in, 61
Functional impairment of, G-protein-coupled-receptor kinase 2 and, 367
11β-hydroxysteroid dehydrogenase expression and functional consequences in bone and, 375
Loading-related prostaglandin release from, 241
P2 receptors expression in, 503
Response to parathyroid hormone analogs, comparison study, 471
Osteoclastogenesis
Estrogen exposure effects on, 47
Vitamin K_2 effects on, in bone marrow cells, 769
Osteoclasts
Activity of, vasoactive intestinal peptide regulation of, 803
Differentiation from resident precursors, in bone resorption, 627
Early estrogen exposure effects on osteoclastogenesis and, 47
11β-hydroxysteroid dehydrogenase expression and functional consequences in bone and, 375
Ion channel characterization in, deciduous teeth, 5
P2 receptors expression in, 503
Tetracycline-induced apoptosis in, 75
TRANCE-expressing, 29
Vitamin D receptor immunoreactivity in bone cells and, 383
Osteocytes
Loading-related prostaglandin release from, 241
Osteogenesis
Distraction, bone morphogenetic protein expression during, 453
Distraction, murine model of, 661
Estrogen-induced, estrogen receptor and, mouse, 41
Osteogenesis imperfecta
Decreased bone mineral density and, 219
Osteomalacia
Tumor-induced, phosphate homeostasis regulation and, Perspective, 333
Osteomodulin
Small leucine-rich proteoglycans and, 265
Osteopenia
Alendronate effects, postmenopausal women, 681
Bone marrow adipogenesis and, Perspective, 177
WHO criteria for, hip fracture risk and, 585
Osteopetrosis, type II
Autosomal dominant, osteoclastic demineralization and mineralized cement lines in, 389
Osteoporosis
Alendronate effects on bone tissue mineralization, 687
Alendronate prevention/treatment of, regimen comparison, postmenopausal women, 119
Antiresorptive therapy effects on fracture risk in, Editorial, 1
Bone loss in, alendronate prevention in Chinese women, 677
Bone mineral density in spinal cord injury, 305
Cortical porosity in intracapsular hip fracture and, 297
Cyclical etidronate vs. sodium fluoride treatment, postmenopausal women, 123

Bone Vol. 27, No. 6
December 2000:884–889

Fracture risk in, quantitative ultrasound and, 139
Lower leg, bone-muscle strength indices for, 319
Milk protective function against, 403
Nonsteroidal anti-inflammatory drugs and, 563
Parathyroid hormone effects, Perspective, 467
Pharmacological interventions for prevention of vertebral fracture, postmenopausal women, Editorial, 765
Physical, chemical and mechanical study of lumbar vertebrae, nandrolone decanoate treatment and, 541
Trabecular architecture in, vertebral fracture and, 2D histology, 271
Trabecular architecture in, vertebral fracture and, 3D histology, 277
WHO criteria for, hip fracture risk and, 585

Osteoprogenitor
Insulin-like growth factor-1/-2 effects on proliferation and differentiation of, 785

Osteosclerosis
Fibrogenesis imperfecta ossium, case report at autopsy, 865

P2 receptors
Expression in bone and bone cells, 503

Paget's disease
Measles virus and canine distemper virus absence in bone marrow in, 417
Osteoclast differentiation in, 1,25-dihydroxyvitamin D_3 and, 409
Trends in incidence of, 423

Parathyroid hormone
Activated protein-1 gene activation in response to, 819
Analogs of, bone formation responses to, comparison study, 471
Apoptosis regulation in trabecular bone by, 209
Bone mass effects, comparison with activin, 91
Bone turnover effects, postmenopausal women, 311
Calcimimetic NPS R-568-induced decrease in, bone loss rate and, 511
Osteoporosis effects, Perspective, 467

Patch clamp
Calcium-sensing receptor in osteoblastic cells, 21

Pentoxifylline
Bone formation promotion and, 811

Pharmacokinetics
Clodronate, food intake timing effects on bioavailability of, 293

Phosphate
Homeostasis regulation, tumor-induced osteomalacia and, Perspective, 333
Inorganic, apoptosis of osteoblasts, 359

Phosphate transport
Endochondrial ossification and, 69

Phospholipase A_2
Loading-related prostaglandin production and, 241

Physical activity
Bone mass development and, 847

Physiology
Lower leg, bone-muscle strength indices for, 319

Plasminogen activator inhibitor I
Bone resorption and, 97

Potassium channel
Osteoblast cells and, 21

Prostaglandins
Loading-related, release from osteocytes and osteoblasts, 241

Quantitative trait loci
Mapping, insulin-like growth factor-1, 521

Research
Bone and mineral, Perspective, 341

Rickets
Tumor-induced osteomalacia, phosphate homeostasis regulation and, Perspective, 333

Risedronate
Bone loss prevention and, 639

Rolipram
Bone formation promotion and, 811

Sciatic neurotomy
Unilateral, spaceflight and simulated weightlessness effects on longitudinal bone growth, 535

Sialoprotein
Bone, functional analysis of, 795

Skeletal unloading
Spaceflight and simulated weightlessness effects on longitudinal bone growth, 535

Smoking
Bone metabolism and, elderly women, 429

Sodium fluoride
Postmenopausal osteoporosis and, comparison with etidronate, 123

Spaceflight
And simulated weightlessness effects on longitudinal bone growth, 535

Spinal cord injury
Bone mineral density in, 305

Stance
Bipedal, prevention of orchidectomy-induced bone loss in lumbar spine, 667

Stress fracture
Bone strain and microcracks at sites of, in metatarsals, 827
In military recruits, gender differences in susceptibility factors, 437

STRO-1
Fibroblast growth factor-2 and, 185

Stroke
Weight bearing after, bone loss in femoral neck and, 701

Tetracycline
Apoptosis induced by, in osteoclasts, 75

Tetracycline labeling
Structural and cellular changes during bone growth in children, 487

Thyroidectomy
Fractures after, women, 695

Tibia
Diaphysis, fibroblast growth factor and, 197
Dietary depletion/repletion of calcium effects on, mice, 445
Fracture healing, transforming growth factor-β1 in, 551

Trabecular bone
Apoptosis regulation in, by parathyroid hormone, 209
Volume fraction-dependent bias and, 715

TRANCE
Osteoclast formation from hemopoietic precursors and, 29

Transforming growth factor-β1
Tibial fracture healing and, 551

Tumor necrosis factor
Bone resorption regulation, proposed standard nomenclature for, 761

Ultrasound, quantitative
Bone density in hemodialysis patients, 287
Precision of, comparison study, 139

Vasoactive intestinal peptide
Osteoclast activity regulation and, 803

Vertebral deformity
Prevalent, morphometric assessment of, 841

Vertebral fracture
Morphometric assessment of, 841
Pharmacological interventions for prevention, postmenopausal osteoporosis and, Editorial, 765
Trabecular architecture in osteoporosis and, 2D histology, 271
Trabecular architecture in osteoporosis and, 3D histology, 277

Verticalization
Bone mineral density in spinal cord injury, 305

Vitamin D
Bone collagen fibrils and, 635

Vitamin D receptor
Immunoreactivity of, characterization in bone cells, 383

Vitamin K_2
Adipogenesis, osteoclastogenesis and ODF/RANK ligand expression in bone marrow cells, 769

Weight bearing
After stroke, bone loss in femoral neck and, 701
Women
Fractures after thyroidectomy, 695
Postmenopausal, calcitonin receptor mRNA in leucocytes from,161
Women, postmenopausal
Alendronate effects on osteopenia, 681
Bone mineral density association with interleukin-1 receptor antagonist protein gene polymorphism, 559
Hip fracture risk, type I collagen breakdown product as predictor of, 283
Osteoporosis, alendronate effects on bone tissue mineralization, 687
Osteoporosis, pharmacological interventions for prevention of vertebral fracture in, Editorial, 765
Parathyroid hormone effects on bone turnover in, 311
Smoking and bone metabolism in, 429